ATTY DKT NO.: H052617.1136US0

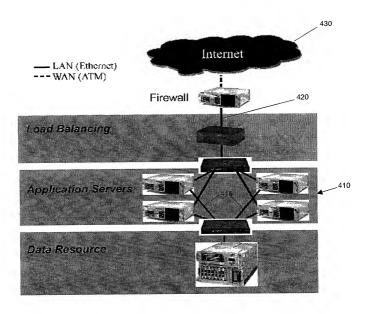
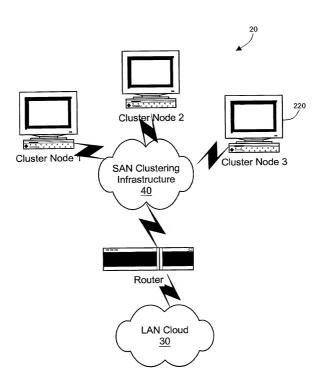


Fig. 1

 TITLE: ARCHITECTURAL BASIS FOR THE BRIDGING OF SAN AND LAN INFRASTRUCTURES
INVENTORS: Ramkrishna Prakash, David M. Abmayr, Jeffrey R. Hilland, James Fouts, Scott C. Johnson and William F. Whiteman

ATTY DKT NO.: H052617.1136US0



VENTORS: Ramkrishna Prakash, David M. Abmayr, Jeffrey R. Hilland, James Fouts, Scott C. Johnson and William F. Whiteman

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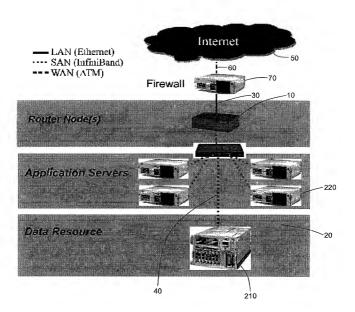


Fig. 3

TITLE: ARCHITECTURAL BASIS FOR THE BRIDGING OF SAN AND LAN INFRASTRUCTURES INVENTORS: Ramkrishna Prakash, David M. Abmayr, Jeffrey R. Hilland, James Fouts, Scott C. Johnson and William F. Whiteman ATTY DKT NO.: H052617.1136US0 Router Node -Fig. 4 130 = Management Flow RMA Data Flow RA SMA PMA **^136** Remote FΑ Client 140~ -80 SAN Transport LAN/WAN 120 150 Protocol Protocol SeverNet/ Ethernet LAN VIA 160 110 SAN NIC Driver LAN NIC Driver **1** ♠ 170 SAN NIC LAN NIC File Cluster Node (20) Management Node (28) 240 SAN Application Socket Interface <u>40</u> 230 -134 Cluster Node (20) NMA SMA 240 MA **PMA** Application Socket Interface 236 136 NMA SMA PMA 230-SAN SAN Transport 220 Transport 220 Protocol

> SeverNet/ VIA

SAN NIC Driver

SAN NIC

210

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SAN NIC
052617.1136 HOUSTON 216473 v1

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Protocol SeverNet/

VIA

SAN NIC Driver

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Policy Table

Fig. 5

Services	Eligibility	SAN address	Weight
http	No Authorization Required	Clust Node 1	Allocate Twice
ftp	No Authorization Required	Clust Node 2	Allocate Once
SAP	Authorization Required	Clust Node 1	Allocate Once

Session Table

Fig. 6

SRC MAC Add	SRC IP	SRC TCP	DEST SAN	Session
	Add	Seck#	Add	Handle
Rem Clnt1	Rem Cint1	Rem Clnt1	Clust Node1	Session
MAC	IP	Sock #		Handle 1
Rem Clnt2	Rem Clnt1	Rem Clnt1	Clust Node2	Session
MAC	IP	Sock #		Handle2
Rem Clnt2	Rem Clnt1	Rem Clnt1	Clust Node3	Session
MAC	IP	Sock #		Handle3

James Fouts, Scott C. Johnson and William F. Whiteman ATTY DKT NO.: H052617.1136US0

Fig. 7

Cluster Node Management Election Packet

Broadcast from the Cluster Nodes:

0	1	2	3
Source IP address			
	Destinatio	n IP address	
Priority Cluster ID			er ID
Packet Typ	e	Function	
a department of the control of the c		iddress (N/A)	a Mercel annual manage of a second annual second
A THE CONTRACT OF THE PARTY OF	Management Noc	le IP address (N/A)	September of the second state of the second
Source Port (N/A) Destination Port (N/A)			Port (N/A)

Fig. 8

Router Node Management Election Acknowledge Packet

Reply from the Router Node

H CC L CAL

0	1	2	3
	Source I	P address	
	Destination	ı IP address	
Priority (N/A) Cluster ID			er ID
Packet	Туре	Function	
	Router I	P address	
		e IP address (N/A)	
Source Po	rt (N/A) ac mentil be a m	Destination	Port (N/A)

Fig. 9

Management Node Notification Packet

Sent from the Router Node to the Cluster Nodes

0	1	2	3	
	Source II			
	Destination	IP address		
Priority (N/.	4)	Clus	Cluster ID	
Packet Typ			Function	
	Router II			
	Management N	ode IP address		
Source Port (1	(A)	Destinatio	n Port (N/A)	